SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS
revised report

TO: Ed Pupka, Senior Enforcement Manager
Engineering & Compliance

LABORATORY NO: 08153-02

REFERENCE NO: MSF-4-140

SAMPLE DESCRIPTION:

Canister #E3356
6/1/08 1917 hrs
Residence Area
(downwind of fire)

SAMPLE SOURCE:
Universal Studios Fire
Hollywood, CA

DATE SAMPLED: 6/1/08

DATE RECEIVED: 6/1/08

DATE ANALYZED: 6/1/08

ANALYZED BY: Ken Sanchez

REQUESTED BY: Katsumi Keeler

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS
Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) - Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Note: See Attached Results.

Date Approved: 6/3/08

Approved By: Rudy Eden

Rudy Eden, Sr. Manager
Laboratory Services Branch
(909) 396-2391

cc: Katsumi Keeler, E&C

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LAB NO: 08153-02
SOURCE: Universal Studios Fire

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by GC/MS/FID

Compound, ppb	Canister #E3356 06/01/08 Residence Area Conc. (ppb)	Typical Ambient Air Conc. (ppb)
Ethane	1.0	3.0
Ethylene	0.6	1.1
Acetylene	1.0	2.4
Propane	1.3	6.4
Freon-12*	0.4	0.3
Propylene*	0.9	0.8
Isobutane	0.3	1.4
Chloromethane*	0.5	0.5
n-Butane	0.4	1.9
Vinyl Chloride*	N.D.	N.D.
1,1-Difluoroethane	0.1	0.6
Freon-114	N.D.	N.D.
Bromomethane	N.D.	N.D.
1-Butene	0.1	0.1
1,3-Butadiene*	0.1	0.1
trans-2-Butene	<0.1	<0.1
Isobutylene	0.2	0.2
Chloroethane	N.D.	N.D.
Acetaldehyde*	1.4	1.0
cis-2-Butene	N.D.	<0.1
Vinyl Bromide*	N.D.	N.D.
Ethanol	1.8	7.3
Acrolein*	0.2	0.1
Isopentane	0.5	2.1
Acetone	2.2	9.9
Freon-11*	0.2	0.3
1-Pentene	<0.1	<0.1
Ethanethiol	N.D.	N.D.
Isopropyl Alcohol*	0.4	0.7

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Canister #E3356

Compound, ppb	06/01/08 Residence Area Conc. (ppb)	Typical Ambient Air Conc. (ppb)
Acrylonitrile*	N.D.	<0.1
n-Pentane	0.3	0.9
Isoprene*	0.2	<0.1
trans-2-Pentene	<0.1	<0.1
1,1-Dichloroethene (VDC)	N.D.	N.D.
cis-2-Pentene	<0.1	<0.1
Methylene Chloride*	0.1	0.2
Carbon Disulfide*	<0.1	0.1
Freon-113*	0.1	0.1
2,2-Dimethylbutane	<0.1	0.2
2-Propanethiol	N.D.	N.D.
trans-1,2-Dichloroethene	N.D.	N.D.
1,1-Dichloroethane*	<0.1	N.D.
Cyclopentane	<0.1	0.1
2,3-Dimethylbutane	0.1	0.2
Methyl tert-Butyl Ether*	N.D.	<0.1
2-Methylpentane	0.1	0.7
Vinyl Acetate*	N.D.	0.2
2-Methyl-2-Propanethiol	N.D.	N.D.
2-Butanone (MEK)*	0.4	0.8
3-Methylpentane	0.1	0.4
1-Hexene	<0.1	<0.1
cis-1,2-Dichloroethylene	N.D.	N.D.
1-Propanethiol	N.D.	N.D.
n-Hexane*	0.1	0.6
Chloroform*	<0.1	<0.1
Ethyl Acetate	N.D.	0.1
Tetrahydrofuran	<0.1	<0.1

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ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by GC/MS/FID

Compound, ppb	Canister #E3356 06/01/08 Residence Area Conc. (ppb)	Typical Ambient Air Conc. (ppb)
Methylcyclopentane	0.1	0.5
1,2-Dichloroethane (EDC)*	<0.1	<0.1
2,4-Dimethylpentane	<0.1	0.2
1,1,1-Trichloroethane*	<0.1	<0.1
Benzene*	0.6	0.4
Carbon Tetrachloride*	0.1	0.1
Cyclohexane	0.1	0.2
2-Methylhexane	<0.1	0.2
2,3-Dimethylpentane	0.1	0.2
3-Methylhexane	<0.1	0.3
1,2-Dichloropropane*	N.D.	N.D.
Bromodichloromethane	N.D.	N.D.
Trichloroethylene*	N.D.	<0.1
2,2,4-Trimethylpentane*	0.1	0.5
1,4-Dioxane*	N.D.	N.D.
Methyl Methacrylate*	<0.1	N.D.
n-Heptane	<0.1	0.2
cis-1,3-Dichloropropene*	N.D.	N.D.
Methyl Isobutyl Ketone (MIBK)*	<0.1	<0.1
Methylcyclohexane	<0.1	0.2
trans-1,3-Dichoropropene*	N.D.	N.D.
1,1,2-Trichloroethane*	N.D.	N.D.
2,3,4-Trimethylpentane	<0.1	0.1
Toluene*	0.4	1.5
2-Methylheptane	<0.1	0.1
2-Hexanone	N.D.	N.D.
3-Methylheptane	<0.1	0.1
Dibromochloromethane	N.D.	N.D.

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Compound, ppb	06/01/08 Residence Area Conc. (ppb)	Typical Ambient Air Conc. (ppb)
1,2-Dibromoethane (EDB)*	N.D.	N.D.
1,3,5-Heptatriene	N.D.	N.D.
Butyl Acetate*	N.D.	0.2
n-Octane	<0.1	0.1
Perchloroethylene*	<0.1	0.1
Chlorobenzene*	<0.1	N.D.
Ethylbenzene*	0.1	0.2
m-Xylene*	0.1	0.4
p-Xylene*	0.1	0.2
2-Heptanone	N.D.	N.D.
Bromoform*	N.D.	N.D.
Styrene*	0.8	0.1
1,1,2,2-Tetrachloroethane*	<0.1	N.D.
o-Xylene*	0.1	0.2
n-Nonane	<0.1	0.1
Isopropylbenzene	<0.1	<0.1
n-Propylbenzene	<0.1	<0.1
m-Ethyltoluene	<0.1	0.1
p-Ethyltoluene	<0.1	0.1
1,3,5-Trimethylbenzene*	<0.1	<0.1
o-Ethyltoluene	<0.1	0.1
1,2,4-Trimethylbenzene*	<0.1	0.1
n-Decane	<0.1	0.1
Benzyl Chloride*	N.D.	N.D.
1,4-Dichlorobenzene*	<0.1	<0.1
1,3-Dichlorobenzene*	N.D.	N.D.
1,2,3-Trimethylbenzene*	<0.1	<0.1
1,2-Dichlorobenzene*	N.D.	N.D.
m-Diethylbenzene	<0.1	<0.1

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Compound, ppb	Canister #E3356 06/01/08 Residence Area Conc. (ppb)	Typical Ambient Air Conc. (ppb)
p-Diethylbenzene	<0.1	<0.1
n-Undecane	<0.1	0.1
1,2,4-Trichlorobenzene*	N.D.	N.D.
Naphthalene*	N.D.	N.D.
n-Dodecane	N.D.	0.1
Hexachloro-1,3-Butadiene*	N.D.	N.D.
Total NMOC as ppbC HC	**64**	**100-700**

N.D.=Not Detected

*State of California classifies as a Toxic Air Contaminant